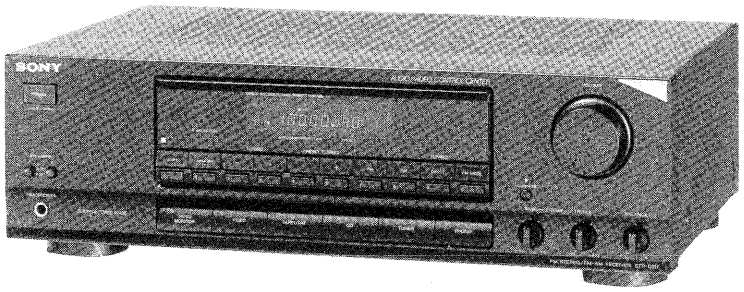
STR-D311

SERVICE MANUAL

US Model
Canadian Model
UK Model
E Model
Australian Model



SPECIFICATIONS

Audio Power Specifications (US and Canadian Models)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 40 - 20,000 Hz, rated 70 watts per channel minimum RMS power, with less than 0.8% total harmonic distortion from 250 milliwatts to rated output.

Other Specifications (for All Models)

Amplifier section

Continuous RMS power output (8 ohms, at 40 Hz - 20 kHz less than 0.8% total harmonic distortion)
- 75 W + 75 W
- 60 W + 60 W **(UK, E, Australian model)**

Dynamic power (at 1 kHz, IHF)
- 90 W + 90 W (8 ohms)
- 80 W + 80 W (8 ohms) **(UK, E, Australian model)**
- 120 W + 120 W (4 ohms)
- 110 W + 110 W (4 ohms) **(UK, E, Australian model)**

Harmonic distortion
- Less than 0.8% at rated output

Frequency response
- PHONO: RIAA equalization curve ±0.5 dB
- CD, VIDEO, TAPE: 10 Hz - 50 kHz ±1 dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	74 dB 72 dB* (A, 2.5 mV)
CD, VIDEO TAPE 1/DAT, TAPE 2 MONITOR	200 mV	50 kilohms	95 dB 80 dB* (A, 200 mV)

* '78 IHF

Outputs

REC OUT, VIDEO (AUDIO) OUT	Voltage 200 mV Impedance 10 kilohms
HEADPHONES	Accepts low and high impedance headphones

Tone controls
- BASS: ±10 dB at 100 Hz
- TREBLE: ±8 dB at 10 kHz

Loudness control
- +6 dB (at 100 Hz)

— Continued on next page —

FM STEREO/FM-AM RECEIVER

SONY®

Tuner section

	FM tuner section	AM tuner section
Tuning range	87.5 – 108 MHz	530 – 1710 kHz (10 kHz step) 531 – 1602 kHz (9 kHz step)
Antenna terminals	300 ohms, balanced 75 ohms, unbalanced	External antenna terminal
Sensitivity at 50 dB quieting (US and Canadian models) and 46 dB (UK, E, Australian model)	18.3 dBf, 4.5 µV (mono) 38.3 dBf, 45 µV (stereo)	—
Usable sensitivity	11.2 dBf, 2 µV (IHF)	Loop antenna: 500 µV (at 1,000 kHz)
Signal-to-noise ratio	76 dB (mono) 70 dB (stereo)	54 dB (at 50 mV/m)
Harmonic distortion	0.3% (mono), 0.5% (stereo) at 1 kHz	0.5% (at 50 mV/m, 400 Hz)
Selectivity	60 dB at 400 kHz	40 dB at 10 kHz
Separation	45 dB at 1 kHz	—
Frequency response	30 Hz — 15 kHz $^{+0.5}_{-2}$ dB	—

General

System
- Tuner section: PLL quartz-locked digital synthesizer system
- Preamplifier section: low-noise NF type equalizer amp
- Power amplifier section: pure complementary SEPP

Power requirements
- **US, Canadian model : 120V AC, 60Hz**
- **UK, Australian model : 240V AC, 50Hz**
- **E model : 120V, 220V or 240V AC, adjustable 50/60Hz**

Power consumption
- **US model: 135 W**
- **Canadian model: 150 W**
- **UK, E, Australian model: 125 W**
- **In standby condition: 5 W**

AC outlet
- **US and Canadian models : One switched (120W/1A Max.)**
- Australian model: 100 W switched
- **E model : One switched (100 W Max.)**

Dimensions
- Approx. 430 x 135 x 295 mm (w/h/d) (17 x 5 $^3/_8$ x 11 $^5/_8$ inches) including projecting parts and controls

Weight
- Approx. 6.2 kg (13 lb 1 oz)

Accessories supplied
- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander RM-S103 (1)
- Sony batteries SUM-3(NS) (2)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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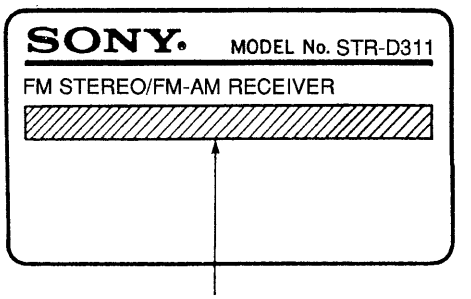
MODEL IDENTIFICATION

—Model Number Label—



US, Canadian model : AC 120V, 60Hz, 135W (US), 150W (CND)
UK, Australian model : AC 240V, 50Hz
E model : AC 120V, 220/240V, 50/60Hz, 125W

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

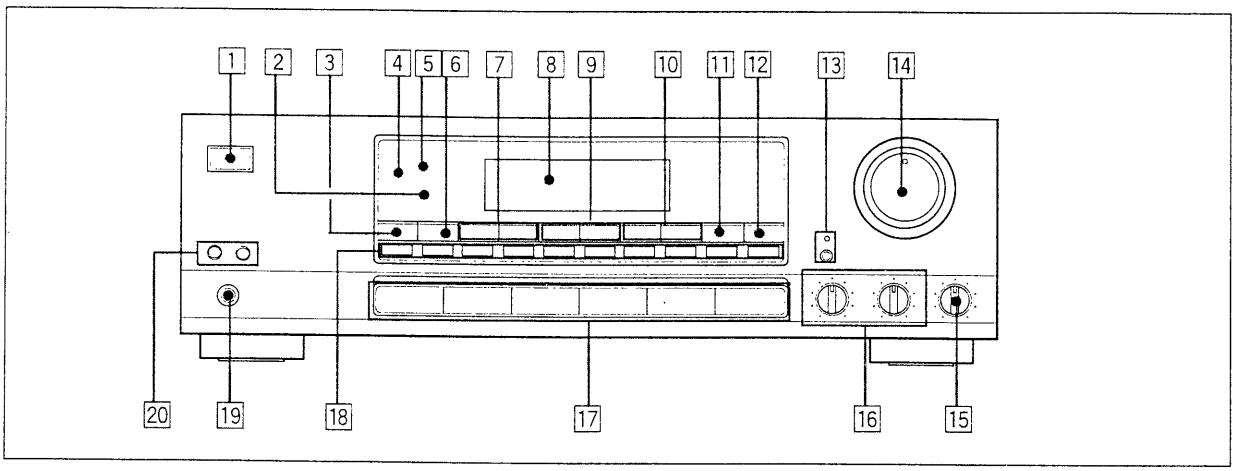
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

Identifying the Parts and Controls

Front Panel



1 **POWER switch**

2 **TAPE 2 MONITOR indicator**

3 **SHIFT button**

4 **Remote sensor**

5 **STANDBY indicator** (for UK, E, Australian model only)
The STANDBY indicator lights up when the power cord is connected.

6 **MEMORY button**

7 **TUNING +/– buttons**

8 **Display window**

9 **PRESET TUNING +/– buttons**

10 **FM/AM band selectors**

11 **TUNING DIRECT button**

12 **FM MODE button**

13 **LOUDNESS button and indicator**

14 **VOLUME control**

15 **BALANCE control**

16 **BASS/TREBLE controls**

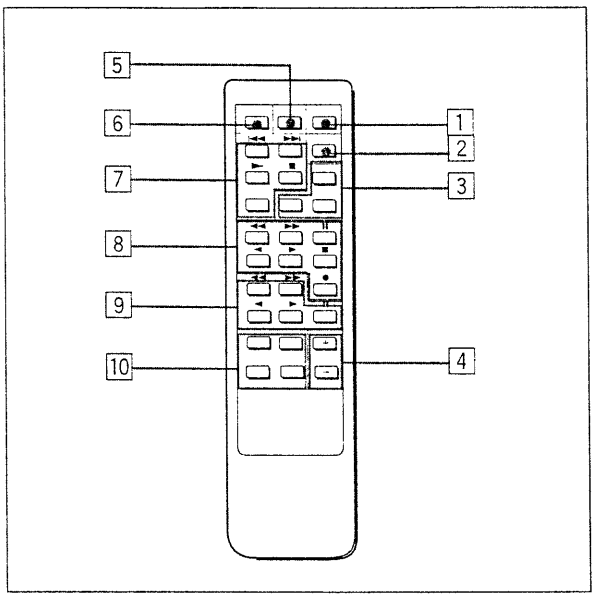
17 **Function selectors**
When the TAPE 2 MONITOR is pressed, the indicator of the last selected function also remains lit. But the TAPE 2 MONITOR button has priority and the taped or digital audio taped program can be heard.

18 **Numeric buttons**

19 **HEADPHONES jack**

20 **SPEAKERS A/B buttons**

Remote Commander RM-S103



1 **POWER button**

2 **DBFB button***

3 **TUNER PRESET +/– and SHIFT buttons**

4 **VOLUME +/– buttons**

5 **SURROUND button***

6 **MUTING button***

7 **CD player operation buttons**
D. (disc) SKIP: When your CD player is equipped with a multi-disc changer, use this button to select loaded disc.
CD ►: Selects the CD function and starts CD playback.
I◄◄/►►I: Locates a desired selection.
■: Stop

8 **DECK B operation buttons** (also for single tape deck)
DECK B ◄/►: Select tape function and start tape playback on deck B.
◄◄/►►: Fast winding
II: Pause
■: Stop
●: Recording

9 **DECK A operation buttons**
DECK A ◄/►: Select tape function and start tape playback on deck A.
◄◄/►►: Fast winding
II: Pause

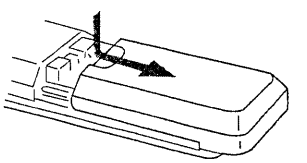
10 **Function select buttons**

* These buttons does not function for the unit.

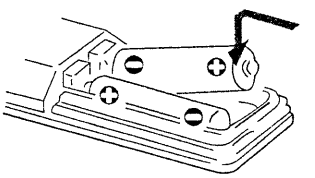
Notes on the remote commander
For the functions other than the receiver's own ones, the remote commander is effective only with Sony components having a remote sensor with a ⊡ mark.

Inserting the Batteries into the Remote Commander

1 Open the cover.



2 Insert two size AA (R6) batteries with correct polarity.

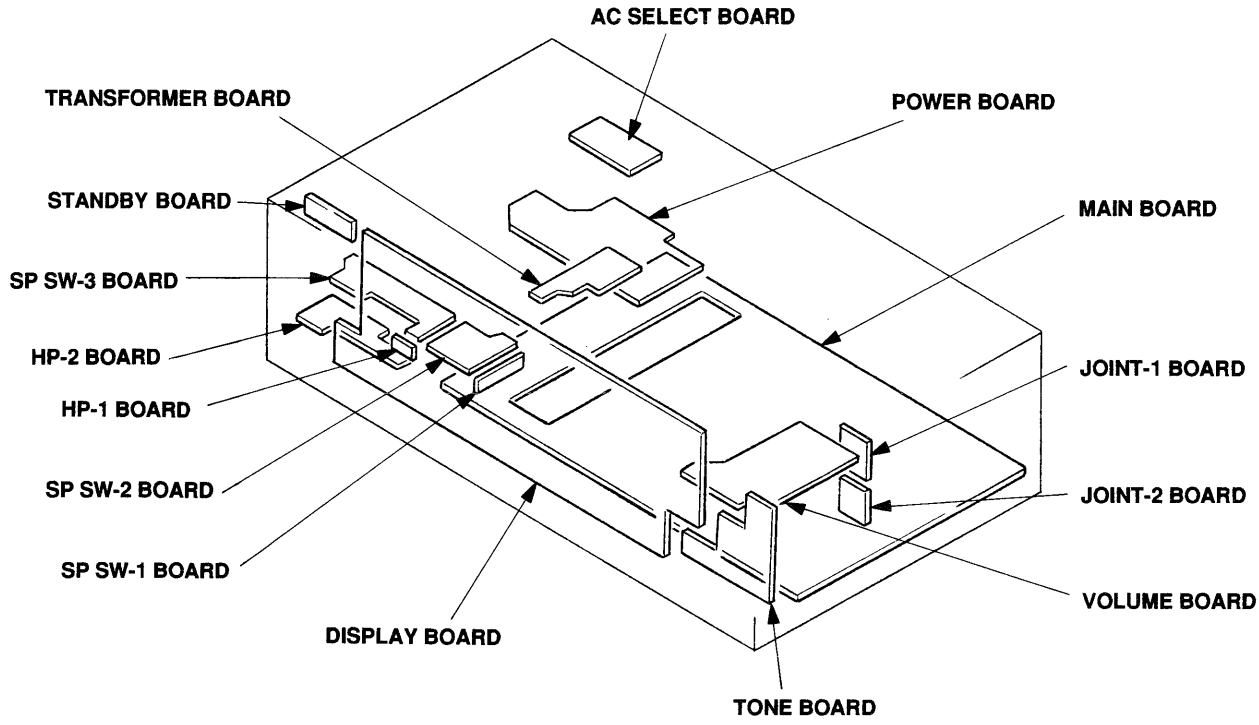


To avoid damage caused by battery leakage and corrosion
When the commander will not be used for a long time, remove the batteries.

Battery life
Normal operation can be expected about a half year using Sony SUM-3 (NS), and a year using Sony AM-3 (NW) alkaline batteries.
When the batteries are run down, the remote commander will not operate the unit. In this case, replace both batteries with new ones.

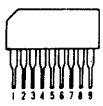
SECTION 2
DIAGRAMS

2-1. CIRCUIT BOARDS LOCATION

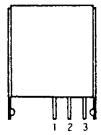


2-2. SEMICONDUCTOR LEAD LAYOUTS

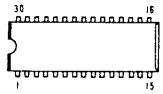
BA6208
uPC4570HA-1



GP1U58XB

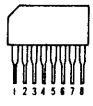


LC7822

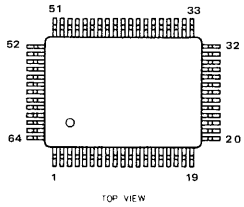


(Top view)

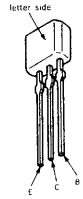
M5218AL



uPD75206GF-731-3BE

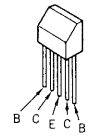


DTA124ES
DTC114TS
2SA1175-HFE
2SC2785-HFE
2SC3623A-LK

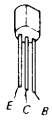


DTC124ES

2SA979-FG

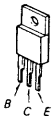


2SA988-PAFAEA

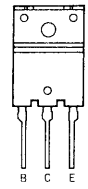


2SA1221-T-KLM
2SC2958

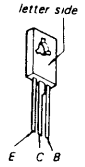
2SB1375-LC
2SD2012



2SB1588-OPY
2SD2439-OPY

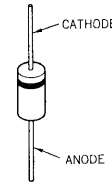


2SD809-K

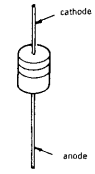


2SK246-GR3

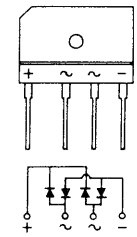
HZS4ALL
UZ-12BSB
UZ-13BSB
UZL-24L
UZ-6.2BSC
1N4148M
1S1585



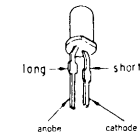
HZS6C3L
UZ-4.3BSB
11ES2



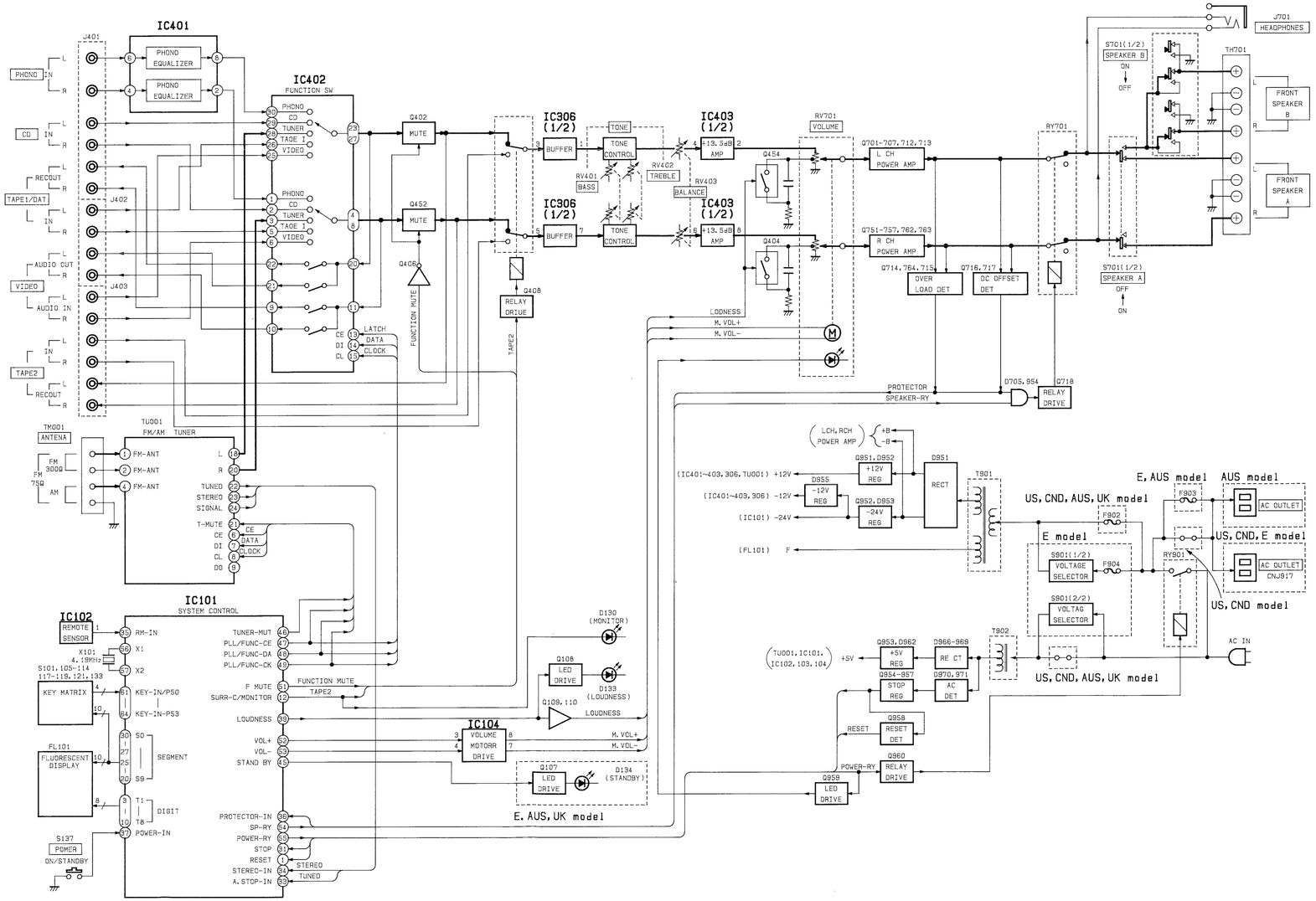
RBV-602-01



SEL3210S-CD
SEL3810A-CD



2-3. BLOCK DIAGRAM



AUS : Australian model
CND : Canadian model

2-4. PRINTED WIRING BOARD — MAIN SECTION —

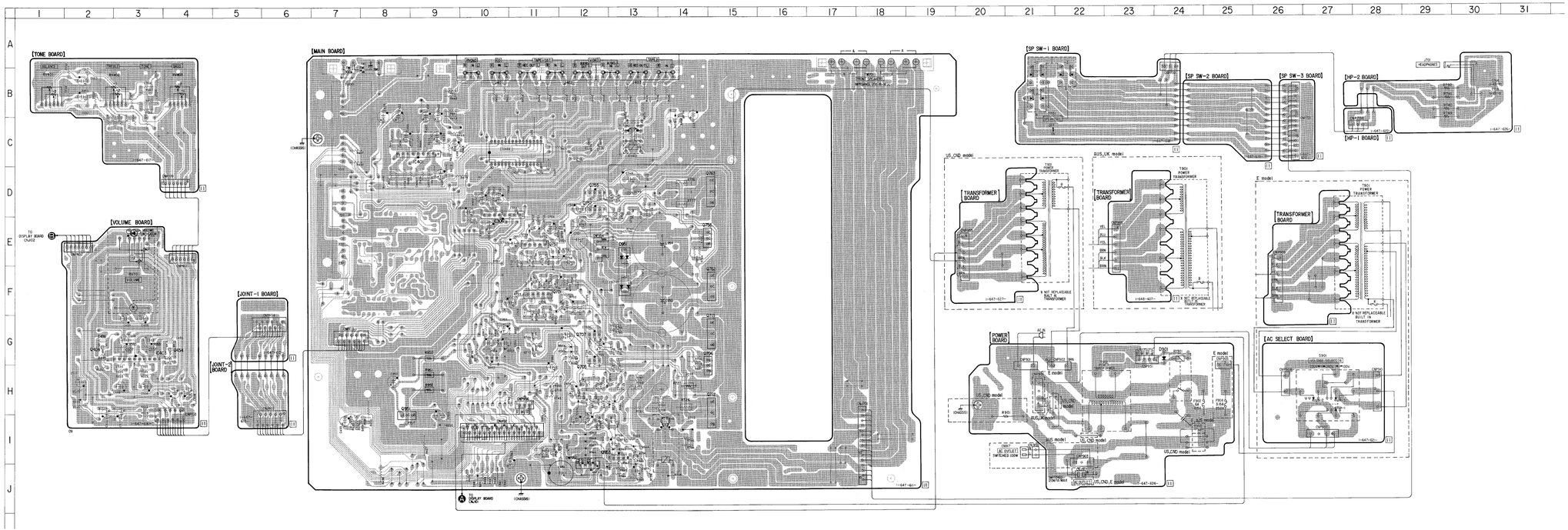
• See page 5 for Circuit Boards Location and Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D401	J-10	Q717	G-11
D403	C-14	Q718	H-11
D404	H-2	Q751	E-11
D701	F-11	Q752	C-12
D702	G-11	Q753	E-12
D703	H-13	Q754	E-11
D704	J-14	Q755	D-12
D705	G-12	Q756	E-14
D751	E-11	Q757	D-12
D752	E-11	Q762	F-15
D753	D-13	Q763	D-15
D901	G-24	Q764	E-13
D951	E-13	Q951	H-8
D952	I-9	Q952	H-10
D953	G-10	Q953	I-12
D954	G-12	Q954	I-13
D955	G-10	Q955	I-12
D956	H-11	Q956	I-12
D962	I-13	Q957	H-12
D963	J-13	Q958	H-12
D964	I-13	Q959	G-10
D965	H-12	Q960	I-11
D966	I-12		
D967	I-12		
D968	I-12		
D969	I-12		
D970	J-12		
D971	J-12		
IC306	E-10		
IC401	C-9		
IC402	C-10		
IC403	G-3		
Q402	C-12		
Q404	G-2		
Q406	I-8		
Q408	C-14		
Q452	C-12		
Q454	G-4		
Q701	F-11		
Q702	F-11		
Q703	F-12		
Q704	F-11		
Q705	H-12		
Q706	G-14		
Q707	G-12		
Q712	H-15		
Q713	G-15		
Q714	H-13		
Q715	H-12		
Q716	G-11		

Note:

- o—— : parts extracted from the components side.
- ——• : parts extracted from the components side.
- ▨▨▨ : Pattern from the side which enable seeing.
- AUS : Australian model
- CND : Canadian model



2-5. SCHEMATIC DIAGRAM — MAIN SECTION —

• See page 23 for IC Block Diagrams.

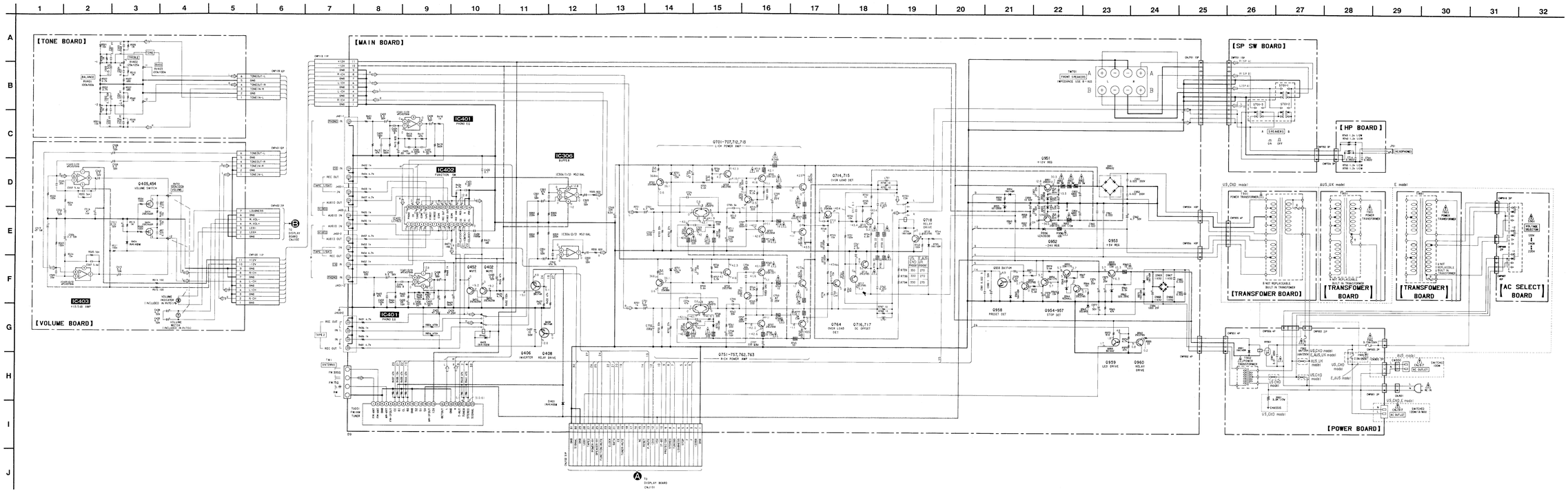
Note:

- All capacitors are in µF unless otherwise noted. pF:µµF 50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- ▭ : nonflammable resistor.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▭▭▭ : B+ Line
- ▭▭▭ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

- AUS : Australian model
- CND : Canadian model

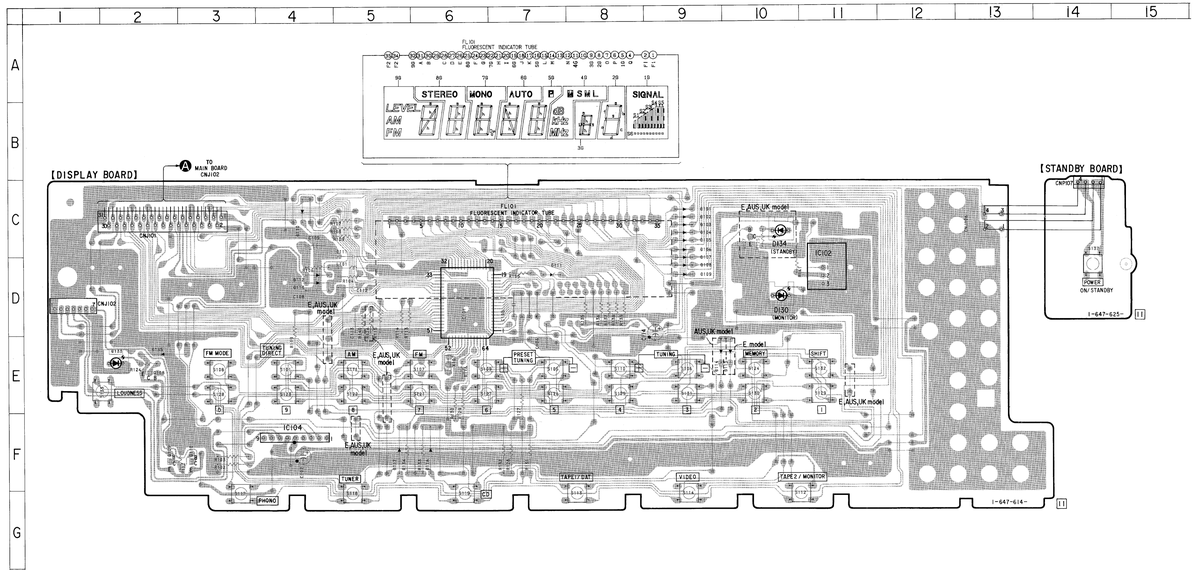


2-6. PRINTED WIRING BOARD — DISPLAY SECTION —

• See page 5 for Circuit Boards Location and Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location
D101	C-9
D102	C-9
D103	C-9
D104	C-9
D105	C-9
D106	C-9
D107	D-9
D108	D-9
D109	D-9
D110	C-4
D111	D-7
D112	D-4
D113	D-4
D114	E-9
D115	E-10
D116	F-6
D117	F-5
D130	D-10
D133	E-2
D134	C-10
D135	E-2
IC101	D-6
IC102	C-11
IC104	F-4
Q107	C-10
Q108	E-2
Q109	F-2
Q110	F-3



Note:

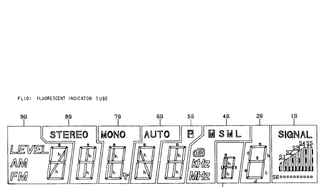
- ——: parts extracted from the components side.
- ——: parts extracted from the components side.
- ▨▨▨: Pattern from the side which enable seeing.
- AUS : Australian model
- CND : Canadian model

Note:

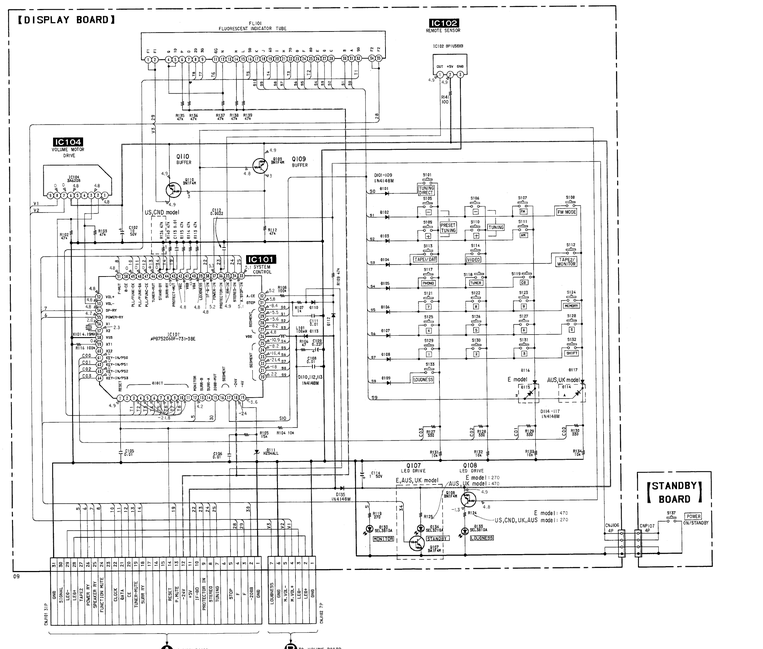
- All capacitors are in µF unless otherwise noted. pF=µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- AUS : Australian model
- CND : Canadian model
- ——: B+ Line
- ——: B– Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

2-7. SCHEMATIC DIAGRAM — DISPLAY SECTION —

• See page 23 for IC Block Diagrams.

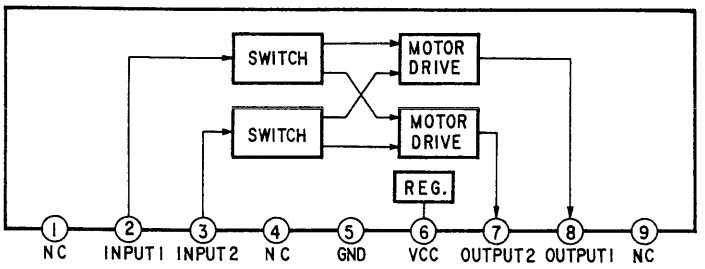


	9G	8G	7G	6G	5G	4G	3G	2G	1G
A	a	a	a	a	a	—	a	a	—
B	b	b	b	b	b	—	b	b	—
C	c	c	c	c	c	—	c	c	—
D	d	d	d	d	d	—	d	d	—
E	e	e	e	e	e	L	e	e	—
F	f	f	f	f	f	M	f	f	—
G	g	g	g	g	g	S	g	g	—
H	h	h	h	h	h	M	h	—	—
I	AM	—	—	—	—	kHz	I	—	—
J	FM	—	Dp	—	—	MHz	—	—	—
K	LEVEL	STEREO	MONO	AUTO	P	dB	—	—	—
L	—	—	—	—	—	—	—	—	S1
M	—	—	—	—	—	—	—	—	S2
N	—	—	—	—	—	—	—	—	S3
O	—	—	—	—	—	—	—	—	S4
P	—	—	—	—	—	—	—	—	S5
Q	—	—	—	—	—	—	—	—	SIGNAL S6

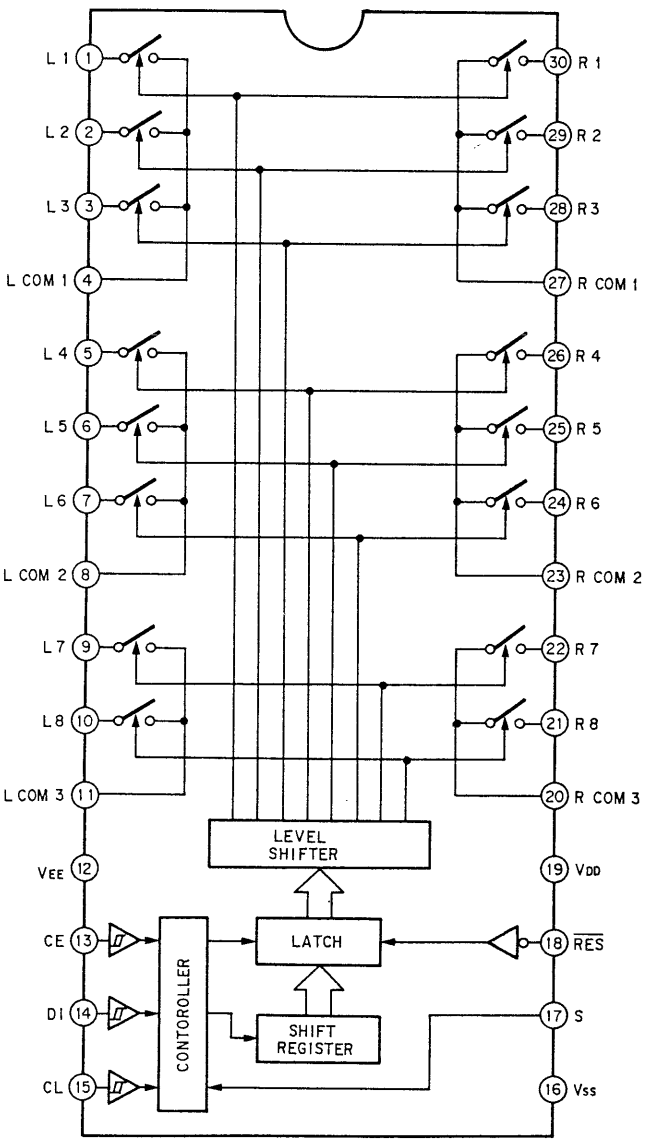


2-8. IC BLOCK DIAGRAMS

IC104 BA6208



IC402 LC7822

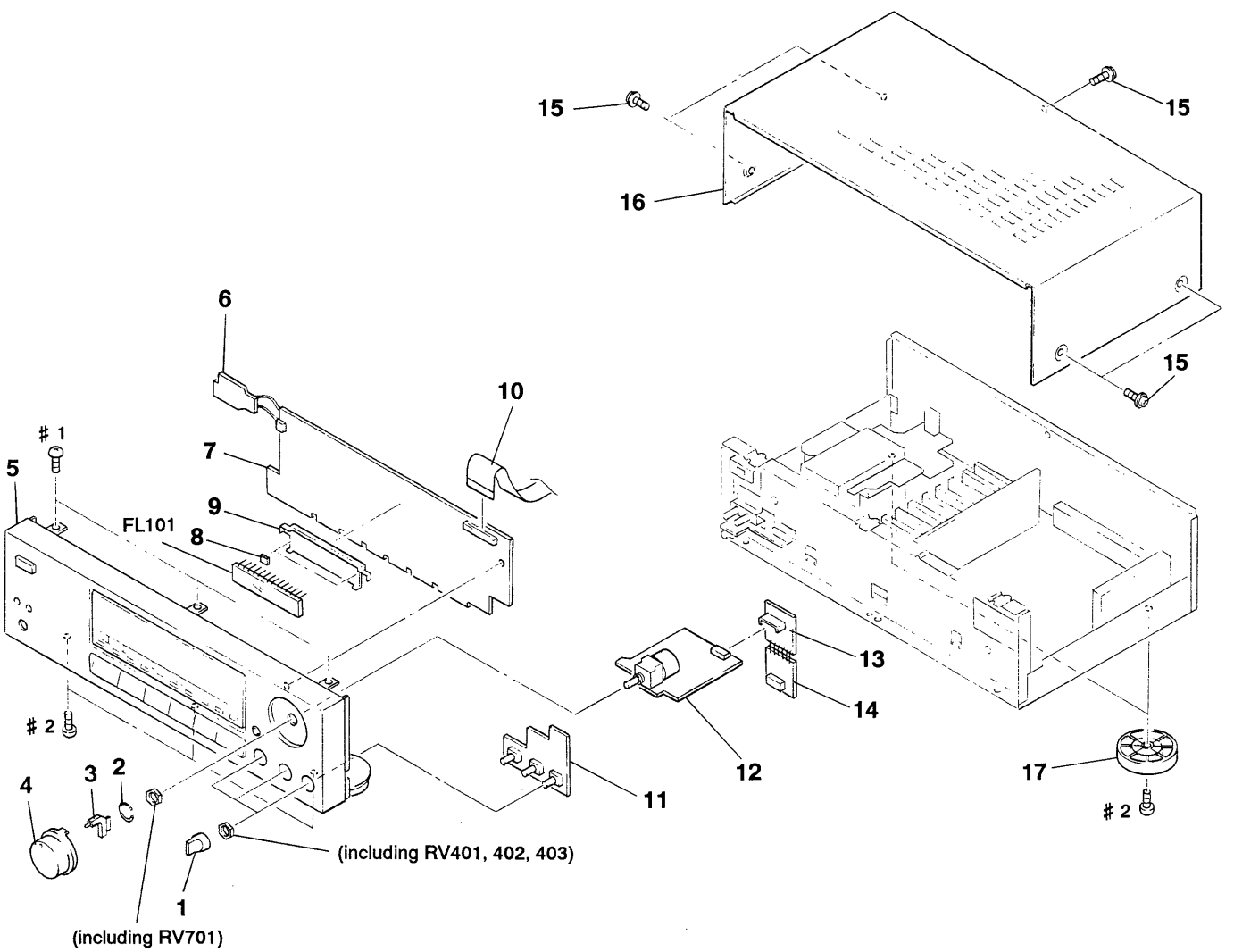


SECTION 3
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.
- CND : Canadian model
- AUS : Australian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

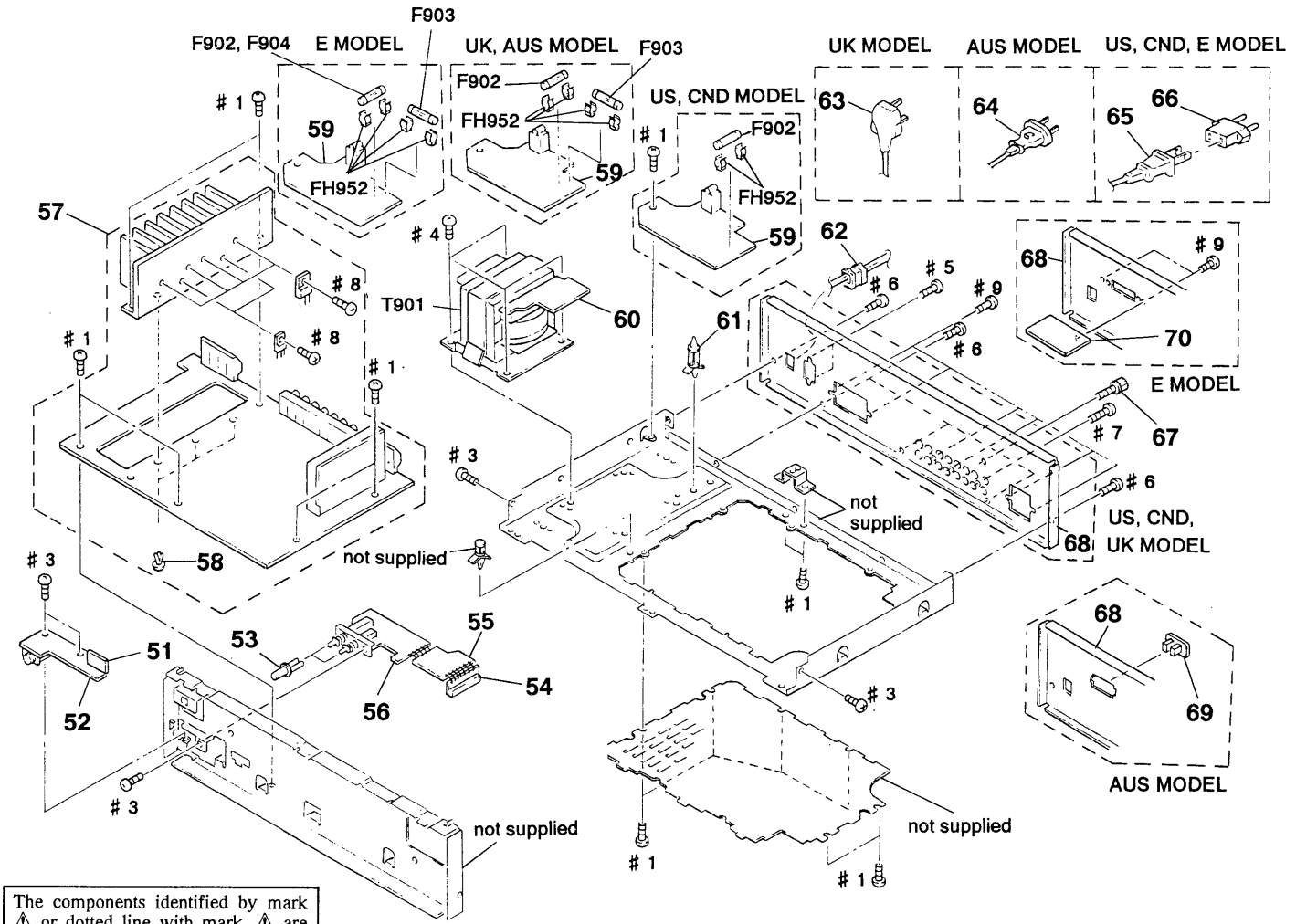
3-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-957-383-01	KNOB (F14)	
2	3-350-426-01	SPRING, RING	
3	4-958-991-01	PLATE (VOL), LIGHT GUIDE	
4	4-949-659-01	KNOB (VOL-NEW)	
5	X-4943-599-1	PANEL ASSY, FRONT (US, CND)	
5	X-4943-600-1	PANEL ASSY, FRONT (UK, E, AUS)	
* 6	1-647-625-11	STANDBY BOARD	
* 7	A-4360-408-A	DISPLAY BOARD, COMPLETE (US, CND)	
* 7	A-4360-419-A	DISPLAY BOARD, COMPLETE (E)	
* 7	A-4360-421-A	DISPLAY BOARD, COMPLETE (UK, AUS)	
* 8	4-921-941-01	CUSHION (FL)	

Ref. No.	Part No.	Description	Remark
* 9	4-943-107-11	HOLDER (FL TUBE)	
10	1-696-456-11	WIRE (FLAT TYPE) (31 CORE)	
* 11	1-647-617-11	TONE BOARD	
* 12	A-4360-409-A	VOLUME BOARD, COMPLETE	
* 13	1-647-612-11	JOINT-1 BOARD	
* 14	1-647-613-11	JOINT-2 BOARD	
15	3-704-366-01	SCREW (CASE) (M3X8)	
* 16	4-951-795-01	CASE	
17	X-4941-291-1	FOOT ASSY (F58175S) (US, CND)	
17	X-4941-292-1	FOOT ASSY (F58175S) (UK, E, AUS)	
FL101	1-519-731-11	INDICATOR TUBE, FLUORESCENT	

3-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 51	1-647-622-11	HP-1 BOARD	
* 52	1-647-626-11	HP-2 BOARD	
53	4-951-801-02	BUTTON (S)	
* 54	1-647-618-11	SP SW-1 BOARD	
* 55	1-647-619-11	SP SW-2 BOARD	
* 56	1-647-620-11	SP SW-3 BOARD	
* 57	A-4360-399-A	MAIN BOARD, COMPLETE (US)	
* 57	A-4360-418-A	MAIN BOARD, COMPLETE (CND)	
* 57	A-4365-113-A	MAIN BOARD, COMPLETE (UK, E, AUS)	
58	4-812-134-00	RIVET NYLON 3.5	
* 59	1-647-624-11	POWER BOARD	
* 60	1-647-627-11	TRANSFORMER BOARD (US, CND, E)	
* 60	1-648-407-11	TRANSFORMER BOARD (AUS)	
* 61	4-924-098-31	HOLDER, PC BOARD	
* 62	3-703-244-00	BUSHING (2104), CORD (US, CND, UK, AUS)	
62	3-703-571-11	BUSHING (S) (4516), CORD (E)	
⚠63	1-696-570-21	CORD, POWER (UK)	
⚠64	1-696-848-21	CORD, POWER (AUS)	
⚠65	1-575-653-51	CORD, POWER (E)	
⚠65	1-690-609-11	CORD, POWER (US, CND)	
⚠66	1-526-565-00	AC PLUG ADAPTOR (E)	
67	4-947-010-01	SCREW, FEEDER FIXED	
* 68	4-957-708-01	PANEL, BACK (US)	
* 68	4-957-708-11	PANEL, BACK (CND)	
* 68	4-957-708-21	PANEL, BACK (UK)	
* 68	4-957-708-31	PANEL, BACK (AUS)	
* 68	4-957-708-41	PANEL, BACK (E)	
⚠69	1-251-078-11	OUTLET, AC. (AUS)	
* 70	1-647-621-11	AC SELECT BOARD (E)	
⚠F902	1-532-259-00	FUSE (T1.6AL) (UK, AUS)	
⚠F902	1-532-286-00	FUSE (T2.5AL) (E)	
⚠F902	1-576-110-11	FUSE (125V 6A) (US, CND)	
⚠F903	1-532-259-00	FUSE (T1.6AL) (UK, AUS)	
⚠F903	1-532-286-00	FUSE (T2.5AL) (E)	
⚠F904	1-576-107-11	FUSE (3.15A 250V) (E)	
* FH952	1-533-293-11	HOLDER, FUSE	
⚠T901	1-423-568-11	TRANSFORMER, POWER (US, CND)	
⚠T901	1-423-569-11	TRANSFORMER, POWER (UK, AUS)	
⚠T901	1-423-573-11	TRANSFORMER, POWER (E)	

AC **DISPLAY**

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- CND : Canadian model
- AUS : Australian model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Hardware (# mark) list is given in the last of this parts list.

Ref. No.	Part No.	Description				Remark
*	1-647-621-11	AC SELECT BOARD (E)				
		**********				
		< CONNECTOR >				
* CNP907	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P (E)				
* CNP908	1-564-321-00	PIN, CONNECTOR 2P (E)				
* CNP910	1-564-687-11	PIN, CONNECTOR 3P (E)				
		< SWITCH >				
⚠S901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (E)				
**********						
*	A-4360-408-A	DISPLAY BOARD, COMPLETE (US, CND)				
		**********				
*	A-4360-419-A	DISPLAY BOARD, COMPLETE (E)				
		**********				
*	A-4360-421-A	DISPLAY BOARD, COMPLETE (UK, AUS)				
		**********				
*	4-921-941-01	CUSHION (FL)				
*	4-942-204-01	PLATE, GROUND				
*	4-943-107-11	HOLDER (FL TUBE)				
		< CAPACITOR >				
C102	1-124-261-00	ELECT	10uF	20%	50V	
C105	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C106	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C108	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C109	1-104-905-11	CAP, DOUBLE LAYERS 0.22F				
C111	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C112	1-161-375-00	CERAMIC	0.0022uF	20%	50V	
C113	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C114	1-126-301-11	ELECT	1uF	20%	50V	
		< CONNECTOR >				
* CNJ101	1-568-873-11	SOCKET, CONNECTOR 31P				
* CNJ102	1-566-969-11	HOUSING, CONNECTOR(PC BOARD)7P				
* CNJ106	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P				
		< DIODE >				
D101	8-719-987-63	DIODE	1N4148M			
D102	8-719-987-63	DIODE	1N4148M			
D103	8-719-987-63	DIODE	1N4148M			
D104	8-719-987-63	DIODE	1N4148M			
D105	8-719-987-63	DIODE	1N4148M			
D106	8-719-987-63	DIODE	1N4148M			
D107	8-719-987-63	DIODE	1N4148M			
D108	8-719-987-63	DIODE	1N4148M			
D109	8-719-987-63	DIODE	1N4148M			
D110	8-719-987-63	DIODE	1N4148M			
D111	8-719-985-53	DIODE	HZS4ALL			
D112	8-719-987-63	DIODE	1N4148M			
D113	8-719-987-63	DIODE	1N4148M			
D114	8-719-987-63	DIODE	1N4148M			(UK, AUS)
D115	8-719-987-63	DIODE	1N4148M			(E)
D116	8-719-987-63	DIODE	1N4148M			
D117	8-719-987-63	DIODE	1N4148M			
D130	8-719-313-72	LED	SEL3810A-CD			(MONITOR)
D133	8-719-313-72	LED	SEL3810A-CD			(LOUDNESS)
D134	8-719-313-69	LED	SEL3210S-CD			(STANDBY) (UK, E, AUS)
D135	8-719-987-63	DIODE	1N4148M			
		< FILTER >				
FL101	1-519-731-11	INDICATOR TUBE, FLUORESCENT				
		< IC >				
IC101	8-759-167-28	IC	uPD75206GF-731-3BE			
IC102	8-749-923-11	IC	GP1U58XB			
IC104	8-759-962-08	IC	BA6208			
		< COIL >				
L101	1-410-521-11	INDUCTOR	100uH			
		< TRANSISTOR >				
Q107	8-729-900-36	TRANSISTOR	DTC124ES			(UK, E, AUS)
Q108	8-729-900-63	TRANSISTOR	DTA124ES			
Q109	8-729-900-63	TRANSISTOR	DTA124ES			
Q110	8-729-900-63	TRANSISTOR	DTA124ES			
		< RESISTOR >				
R102	1-249-437-11	CARBON	47K	5%	1/4W	
R103	1-249-437-11	CARBON	47K	5%	1/4W	
R104	1-249-429-11	CARBON	10K	5%	1/4W	
R105	1-249-431-11	CARBON	15K	5%	1/4W	
R106	1-249-401-11	CARBON	47	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R107	1-249-417-11	CARBON	1K	5%	1/4W	
R108	1-249-441-11	CARBON	100K	5%	1/4W	
R109	1-249-437-11	CARBON	47K	5%	1/4W	
R112	1-249-437-11	CARBON	47K	5%	1/4W	
R113	1-249-437-11	CARBON	47K	5%	1/4W	
R114	1-249-437-11	CARBON	47K	5%	1/4W	
R115	1-249-437-11	CARBON	47K	5%	1/4W	
R116	1-249-441-11	CARBON	100K	5%	1/4W	
R119	1-249-410-11	CARBON	270	5%	1/4W	
R124	1-249-410-11	CARBON	270	5%	1/4W	(US, CND, UK, AUS)
R124	1-249-413-11	CARBON	470	5%	1/4W	(E)
R125	1-249-410-11	CARBON	270	5%	1/4W	(E)
R125	1-249-413-11	CARBON	470	5%	1/4W	(UK, AUS)
R126	1-249-437-11	CARBON	47K	5%	1/4W	(US, CND)
R127	1-249-411-11	CARBON	330	5%	1/4W	
R128	1-249-411-11	CARBON	330	5%	1/4W	
R129	1-249-411-11	CARBON	330	5%	1/4W	
R130	1-249-411-11	CARBON	330	5%	1/4W	
R131	1-249-429-11	CARBON	10K	5%	1/4W	
R132	1-249-429-11	CARBON	10K	5%	1/4W	
R133	1-249-429-11	CARBON	10K	5%	1/4W	
R134	1-249-429-11	CARBON	10K	5%	1/4W	
R135	1-249-437-11	CARBON	47K	5%	1/4W	
R136	1-249-437-11	CARBON	47K	5%	1/4W	
R137	1-249-437-11	CARBON	47K	5%	1/4W	
R138	1-249-437-11	CARBON	47K	5%	1/4W	
R139	1-249-437-11	CARBON	47K	5%	1/4W	
R140	1-249-437-11	CARBON	47K	5%	1/4W	
R141	1-249-405-11	CARBON	100	5%	1/4W	
		< SWITCH >				
S101	1-554-303-21	SWITCH, TACTILE (TUNING DIRECT)				
S105	1-554-303-21	SWITCH, TACTILE (PRESET TUNING -)				
S106	1-554-303-21	SWITCH, TACTILE (TUNING -)				
S107	1-554-303-21	SWITCH, TACTILE (FM)				
S108	1-554-303-21	SWITCH, TACTILE (FM MODE)				
S109	1-554-303-21	SWITCH, TACTILE (PRESET TUNING +)				
S110	1-554-303-21	SWITCH, TACTILE (TUNING +)				
S111	1-554-303-21	SWITCH, TACTILE (AM)				
S112	1-554-303-21	SWITCH, TACTILE (TAPE2/MONITOR)				
S113	1-554-303-21	SWITCH, TACTILE (TAPE1/DAT)				
S114	1-554-303-21	SWITCH, TACTILE (VIDEO)				
S117	1-554-303-21	SWITCH, TACTILE (PHONO)				
S118	1-554-303-21	SWITCH, TACTILE (TUNER)				
S119	1-554-303-21	SWITCH, TACTILE (CD)				
S121	1-554-303-21	SWITCH, TACTILE (7)				
S122	1-554-303-21	SWITCH, TACTILE (8)				
S123	1-554-303-21	SWITCH, TACTILE (9)				
S124	1-554-303-21	SWITCH, TACTILE (MEMORY)				
S125	1-554-303-21	SWITCH, TACTILE (4)				
S126	1-554-303-21	SWITCH, TACTILE (5)				
S127	1-554-303-21	SWITCH, TACTILE (6)				
S128	1-554-303-21	SWITCH, TACTILE (0)				
S129	1-554-303-21	SWITCH, TACTILE (1)				
S130	1-554-303-21	SWITCH, TACTILE (2)				
S131	1-554-303-21	SWITCH, TACTILE (3)				
S132	1-554-303-21	SWITCH, TACTILE (SHIFT)				
S133	1-554-303-21	SWITCH, TACTILE (LOUDNESS)				
		< VIBRATOR >				
X101	1-567-775-11	VIBRATOR, CERAMIC (4.19MHz)				
**********						
*	1-647-622-11	HP-1 BOARD				
		**********				
		< CONNECTOR >				
CNP704	1-691-160-11	PIN, CONNECTOR 3P				
**********						
*	1-647-626-11	HP-2 BOARD				
		**********				
		< CAPACITOR >				
C714	1-164-089-11	CERAMIC	0.0022uF			50V
C764	1-164-089-11	CERAMIC	0.0022uF			50V
		< JACK >				
J701	1-568-151-11	JACK (LARGE TYPE) (HEADPHONES)				
		< RESISTOR >				
R740	1-247-753-11	CARBON	1.2K	5%	1/2W	
R749	1-247-753-11	CARBON	1.2K	5%	1/2W	
R790	1-247-753-11	CARBON	1.2K	5%	1/2W	
R799	1-247-753-11	CARBON	1.2K	5%	1/2W	
**********						
*	1-647-612-11	JOINT-1 BOARD				
		**********				
		< CONNECTOR >				
* CNP404	1-750-384-11	CONNECTOR, BOARD TO BOARD 11P				
**********						

JOINT-2 MAIN

Ref. No.	Part No.	Description				Remark
*	1-647-613-11	JOINT-2 BOARD				
		**********				
		< CONNECTOR >				
* CNJ402	1-750-383-11	CONNECTOR, BOARD TO BOARD 11P				
**********						
*	A-4360-399-A	MAIN BOARD, COMPLETE (US)				
		**********				
*	A-4360-418-A	MAIN BOARD, COMPLETE (CND)				
		**********				
*	A-4365-113-A	MAIN BOARD, COMPLETE (UK, E, AUS)				
		**********				
	4-812-134-00	RIVET NYLON, 3.5				
*	4-942-204-01	PLATE, GROUND (US, CND)				
*	4-953-350-01	PLATE, GROUND				
	7-682-548-04	SCREW +BVTT 3X8 (S)				
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3				
		< CAPACITOR >				
C301	1-124-907-11	ELECT	10uF	20%	50V	
C302	1-162-215-31	CERAMIC	47PF	5%	50V	
C303	1-124-907-11	ELECT	10uF	20%	50V	
C351	1-124-907-11	ELECT	10uF	20%	50V	
C352	1-162-215-31	CERAMIC	47PF	5%	50V	
C353	1-124-907-11	ELECT	10uF	20%	50V	
C402	1-123-382-00	ELECT	3.3uF	20%	100V	
C403	1-162-282-31	CERAMIC	100PF	10%	50V	
C404	1-162-282-31	CERAMIC	100PF	10%	50V	
C405	1-124-034-51	ELECT	33uF	20%	16V	
C406	1-137-437-11	FILM	0.0056uF	5%	50V	
C407	1-137-365-11	FILM	0.0015uF	5%	50V	
C408	1-123-382-00	ELECT	3.3uF	20%	100V	
C420	1-164-159-11	CERAMIC	0.1uF		50V	
C422	1-124-477-11	ELECT	47uF	20%	25V	
C423	1-124-477-11	ELECT	47uF	20%	25V	
C430	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C431	1-137-364-91	FILM	0.001uF	5%	50V	
C433	1-124-925-11	ELECT	2.2uF	20%	100V	
C437	1-124-907-11	ELECT	10uF	20%	50V	
C452	1-123-382-00	ELECT	3.3uF	20%	100V	
C453	1-162-282-31	CERAMIC	100PF	10%	50V	
C454	1-162-282-31	CERAMIC	100PF	10%	50V	
C455	1-124-034-51	ELECT	33uF	20%	16V	
C456	1-137-437-11	FILM	0.0056uF	5%	50V	
C457	1-137-365-11	FILM	0.0015uF	5%	50V	
C458	1-123-382-00	ELECT	3.3uF	20%	100V	
C701	1-124-927-11	ELECT	4.7uF	20%	100V	
C702	1-162-286-31	CERAMIC	220PF	10%	50V	
C703	1-102-116-00	CERAMIC	680PF	10%	50V	
C704	1-124-477-11	ELECT	47uF	20%	25V	
C705	1-164-039-11	CERAMIC	3PF	0.25PF	50V	
C706	1-102-989-00	CERAMIC	68PF	5%	500V	
C707	1-102-989-00	CERAMIC	68PF	5%	500V	
C708	1-124-120-11	ELECT	220uF	20%	25V	
C709	1-124-477-11	ELECT	47uF	20%	25V	
C710	1-164-159-11	CERAMIC	0.1uF		50V	
C711	1-164-159-11	CERAMIC	0.1uF		50V	
C712	1-137-372-11	FILM	0.022uF	5%	50V	
C726	1-162-215-31	CERAMIC	47PF	5%	50V	
C727	1-124-919-11	ELECT	220uF	20%	63V	
C749	1-124-919-11	ELECT	220uF	20%	63V	
C751	1-124-927-11	ELECT	4.7uF	20%	100V	
C752	1-162-286-31	CERAMIC	220PF	10%	50V	
C753	1-102-116-00	CERAMIC	680PF	10%	50V	
C754	1-124-477-11	ELECT	47uF	20%	25V	
C755	1-164-039-11	CERAMIC	3PF	0.25PF	50V	
C756	1-102-989-00	CERAMIC	68PF	5%	500V	
C757	1-102-989-00	CERAMIC	68PF	5%	500V	
C758	1-124-120-11	ELECT	220uF	20%	25V	
C759	1-124-477-11	ELECT	47uF	20%	25V	
C760	1-164-159-11	CERAMIC	0.1uF		50V	
C761	1-124-472-11	ELECT	470uF	20%	10V	
C762	1-137-372-11	FILM	0.022uF	5%	50V	
C776	1-162-215-31	CERAMIC	47PF	5%	50V	
C951	1-106-375-12	MYLAR	0.022uF	5%	200V	
C952	1-106-375-12	MYLAR	0.022uF	5%	200V	
C953	1-128-591-11	ELECT	6800uF	20%	56V	
C954	1-128-591-11	ELECT	6800uF	20%	56V	
C955	1-124-478-11	ELECT	100uF	20%	25V	
C956	1-124-910-11	ELECT	47uF	20%	50V	
C957	1-124-477-11	ELECT	47uF	20%	25V	
C958	1-124-910-11	ELECT	47uF	20%	50V	
C959	1-124-907-11	ELECT	10uF	20%	50V	
C960	1-161-494-00	CERAMIC	0.022uF		25V	
C961	1-161-494-00	CERAMIC	0.022uF		25V	
C962	1-124-927-11	ELECT	4.7uF	20%	100V	
C975	1-124-477-11	ELECT	47uF	20%	25V	
C976	1-124-477-11	ELECT	47uF	20%	25V	
C977	1-124-903-11	ELECT	1uF	20%	50V	
C978	1-124-464-11	ELECT	0.22uF	20%	50V	
C979	1-124-902-00	ELECT	0.47uF	20%	50V	
C980	1-124-903-11	ELECT	1uF	20%	50V	
C981	1-161-494-00	CERAMIC	0.022uF		25V	
C982	1-161-494-00	CERAMIC	0.022uF		25V	
C983	1-161-494-00	CERAMIC	0.022uF		25V	
C984	1-124-557-11	ELECT	1000uF	20%	25V	

Ref.No.	Part No.	Description	Remark
		< CONNECTOR >	
* CNJ102	1-568-845-11	SOCKET, CONNECTOR 31P	
CNJ701	1-573-095-11	SOCKET, CONNECTOR 15P	
* CNP113	1-750-384-11	CONNECTOR, BOARD TO BOARD 11P	
* CNP952	1-564-507-11	PLUG, CONNECTOR 4P	
* CNP954	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
* CNP956	1-564-506-11	PLUG, CONNECTOR 3P	
		< DIODE >	
D401	8-719-987-63	DIODE 1N4148M	
D403	8-719-987-63	DIODE 1N4148M	
D701	8-719-933-41	DIODE HZS6C3L	
D702	8-719-987-63	DIODE 1N4148M	
D703	8-719-815-85	DIODE 1S1585	
D704	8-719-987-63	DIODE 1N4148M	
D705	8-719-987-63	DIODE 1N4148M	
D751	8-719-933-41	DIODE HZS6C3L	
D752	8-719-987-63	DIODE 1N4148M	
D753	8-719-815-85	DIODE 1S1585	
D951	8-719-302-38	DIODE RBV-602-01	
D952	8-719-010-78	DIODE UZ-13BSB	
D953	8-719-002-33	DIODE UZL-24L	
D954	8-719-987-63	DIODE 1N4148M	
D955	8-719-010-74	DIODE UZ-12BSB	
D956	8-719-010-29	DIODE UZ-4.3BSB	
D962	8-719-010-47	DIODE UZ-6.2BSC	
D963	8-719-933-41	DIODE HZS6C3L	
D964	8-719-985-53	DIODE HZS4ALL	
D965	8-719-987-63	DIODE 1N4148M	
D966	8-719-200-82	DIODE 11ES2	
D967	8-719-200-82	DIODE 11ES2	
D968	8-719-200-82	DIODE 11ES2	
D969	8-719-200-82	DIODE 11ES2	
D970	8-719-987-63	DIODE 1N4148M	
D971	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC306	8-759-634-50	IC M5218AL	
IC401	8-759-112-93	IC uPC4570HA-1	
IC402	8-759-805-14	IC LC7822	
		< JACK >	
J401	1-691-887-11	JACK, PIN 6P (PHONO, CD, TAPE1/DAT)	
J402	1-573-028-21	JACK, PIN 4P (TAPE1/DAT, VIDEO)	
J403	1-580-825-11	JACK, PIN 6P (VIDEO, TAPE2)	
		< COIL >	
L701	1-420-872-00	COIL, AIR CORE	
L751	1-420-872-00	COIL, AIR CORE	

Ref.No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q406	8-729-900-63	TRANSISTOR DTA124ES	
Q408	8-729-900-36	TRANSISTOR DTC124ES	
Q452	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q701	8-729-620-18	TRANSISTOR 2SA979-FG	
Q702	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q704	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q705	8-729-122-13	TRANSISTOR 2SA1221-K	
Q706	8-729-209-15	TRANSISTOR 2SD2012	
Q707	8-729-195-82	TRANSISTOR 2SC2958	
Q712	8-729-020-52	TRANSISTOR 2SD2439-OPY	
Q713	8-729-020-48	TRANSISTOR 2SB1588-OPY	
Q714	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q715	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q716	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q717	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q718	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q751	8-729-620-18	TRANSISTOR 2SA979-FG	
Q752	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q753	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q754	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q755	8-729-122-13	TRANSISTOR 2SA1221-K	
Q756	8-729-209-15	TRANSISTOR 2SD2012	
Q757	8-729-195-82	TRANSISTOR 2SC2958	
Q762	8-729-020-52	TRANSISTOR 2SD2439-OPY	
Q763	8-729-020-48	TRANSISTOR 2SB1588-OPY	
Q764	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q951	8-729-209-15	TRANSISTOR 2SD2012	
Q952	8-729-018-59	TRANSISTOR 2SB1375-LC	
Q953	8-729-180-92	TRANSISTOR 2SD809-K	
Q954	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q955	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q956	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q957	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q958	8-729-900-36	TRANSISTOR DTC124ES	
Q959	8-729-904-39	TRANSISTOR DTC114TS	
Q960	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< RESISTOR >	
R302	1-247-887-00	CARBON 220K 5% 1/4W	
R303	1-247-887-00	CARBON 220K 5% 1/4W	
R305	1-249-416-11	CARBON 820 5% 1/4W	
R352	1-247-887-00	CARBON 220K 5% 1/4W	
R353	1-247-887-00	CARBON 220K 5% 1/4W	
R355	1-249-416-11	CARBON 820 5% 1/4W	
R401	1-249-411-11	CARBON 330 5% 1/4W	
R402	1-249-417-11	CARBON 1K 5% 1/4W	
R403	1-249-417-11	CARBON 1K 5% 1/4W	

MAIN

Ref.No.	Part No.	Description				Remark
R404	1-249-425-11	CARBON	4.7K	5%	1/4W	
R405	1-249-417-11	CARBON	1K	5%	1/4W	
R407	1-249-425-11	CARBON	4.7K	5%	1/4W	
R413	1-249-437-11	CARBON	47K	5%	1/4W	
R414	1-247-897-11	CARBON	560K	5%	1/4W	
R415	1-249-416-11	CARBON	820	5%	1/4W	
R416	1-247-897-11	CARBON	560K	5%	1/4W	
R417	1-249-437-11	CARBON	47K	5%	1/4W	
R418	1-249-417-11	CARBON	1K	5%	1/4W	
R419	1-247-897-11	CARBON	560K	5%	1/4W	
R421	1-249-408-11	CARBON	180	5%	1/4W	
R425	1-249-425-11	CARBON	4.7K	5%	1/4W	
R426	1-249-437-11	CARBON	47K	5%	1/4W	
R427	1-249-437-11	CARBON	47K	5%	1/4W	
R430	1-249-437-11	CARBON	47K	5%	1/4W	
R431	1-249-425-11	CARBON	4.7K	5%	1/4W	
R432	1-247-883-00	CARBON	150K	5%	1/4W	
R434	1-249-425-11	CARBON	4.7K	5%	1/4W	
R436	1-249-417-11	CARBON	1K	5%	1/4W	
R437	1-249-437-11	CARBON	47K	5%	1/4W	
R438	1-249-429-11	CARBON	10K	5%	1/4W	
R439	1-249-437-11	CARBON	47K	5%	1/4W	
R440	1-249-437-11	CARBON	47K	5%	1/4W	
R441	1-249-413-11	CARBON	470	5%	1/4W	
R444	1-249-437-11	CARBON	47K	5%	1/4W	
R451	1-249-411-11	CARBON	330	5%	1/4W	
R452	1-249-417-11	CARBON	1K	5%	1/4W	
R453	1-249-417-11	CARBON	1K	5%	1/4W	
R454	1-249-425-11	CARBON	4.7K	5%	1/4W	
R455	1-249-417-11	CARBON	1K	5%	1/4W	
R457	1-249-425-11	CARBON	4.7K	5%	1/4W	
R463	1-249-437-11	CARBON	47K	5%	1/4W	
R464	1-247-897-11	CARBON	560K	5%	1/4W	
R465	1-249-416-11	CARBON	820	5%	1/4W	
R466	1-247-897-11	CARBON	560K	5%	1/4W	
R467	1-249-437-11	CARBON	47K	5%	1/4W	
R468	1-249-417-11	CARBON	1K	5%	1/4W	
R469	1-247-897-11	CARBON	560K	5%	1/4W	
R471	1-249-408-11	CARBON	180	5%	1/4W	
R481	1-249-425-11	CARBON	4.7K	5%	1/4W	
R486	1-249-417-11	CARBON	1K	5%	1/4W	
R701	1-249-417-11	CARBON	1K	5%	1/4W	
R702	1-249-434-11	CARBON	27K	5%	1/4W	
R703	1-249-435-11	CARBON	33K	5%	1/4W	
R704	1-249-421-11	CARBON	2.2K	5%	1/4W	
R705	1-249-426-11	CARBON	5.6K	5%	1/4W	
R706	1-249-414-11	CARBON	560	5%	1/4W	
R707	1-249-423-11	CARBON	3.3K	5%	1/4W	
R708	1-249-411-11	CARBON	330	5%	1/4W	
⚠R709	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R710	1-249-409-11	CARBON	220	5%	1/4W	F
R711	1-249-409-11	CARBON	220	5%	1/4W	
R712	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R713	1-249-397-11	CARBON	22	5%	1/4W	F
R714	1-249-428-11	CARBON	8.2K	5%	1/4W	
R715	1-249-409-11	CARBON	220	5%	1/4W	
⚠R716	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R717	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R718	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R726	1-208-601-21	WIREWOUND	0.1	10%	2W	F
⚠R727	1-208-601-21	WIREWOUND	0.1	10%	2W	F
R728	1-249-417-11	CARBON	1K	5%	1/4W	
R729	1-249-431-11	CARBON	15K	5%	1/4W	
R730	1-249-429-11	CARBON	10K	5%	1/4W	
R731	1-249-441-11	CARBON	100K	5%	1/4W	
R732	1-249-417-11	CARBON	1K	5%	1/4W	
R733	1-249-435-11	CARBON	33K	5%	1/4W	
R734	1-249-427-11	CARBON	6.8K	5%	1/4W	
⚠R735	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R736	1-249-397-11	CARBON	22	5%	1/4W	F
R737	1-249-393-11	CARBON	10	5%	1/4W	
R738	1-249-393-11	CARBON	10	5%	1/4W	
R739	1-249-411-11	CARBON	330	5%	1/4W	(US, CND)
R739	1-249-410-11	CARBON	270	5%	1/4W	(UK, E, AUS)
R743	1-249-441-11	CARBON	100K	5%	1/4W	
R744	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R745	1-249-399-11	CARBON	33	5%	1/4W	F
⚠R749	1-249-399-11	CARBON	33	5%	1/4W	F
R751	1-249-417-11	CARBON	1K	5%	1/4W	
R752	1-249-434-11	CARBON	27K	5%	1/4W	
R753	1-249-435-11	CARBON	33K	5%	1/4W	
R754	1-249-421-11	CARBON	2.2K	5%	1/4W	
R755	1-249-426-11	CARBON	5.6K	5%	1/4W	
R756	1-249-414-11	CARBON	560	5%	1/4W	
R757	1-249-423-11	CARBON	3.3K	5%	1/4W	
R758	1-249-411-11	CARBON	330	5%	1/4W	
⚠R759	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R760	1-249-409-11	CARBON	220	5%	1/4W	F
R761	1-249-409-11	CARBON	220	5%	1/4W	
R762	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R763	1-249-397-11	CARBON	22	5%	1/4W	F
R764	1-249-428-11	CARBON	8.2K	5%	1/4W	
R765	1-249-409-11	CARBON	220	5%	1/4W	
⚠R766	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R767	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R768	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R776	1-208-601-21	WIREWOUND	0.1	10%	2W	F
⚠R777	1-208-601-21	WIREWOUND	0.1	10%	2W	F
R778	1-249-417-11	CARBON	1K	5%	1/4W	
R779	1-249-431-11	CARBON	15K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
R781	1-249-440-11	CARBON	82K	5%	1/4W	
⚠R785	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R786	1-249-397-11	CARBON	22	5%	1/4W	F
R787	1-249-393-11	CARBON	10	5%	1/4W	
R788	1-249-393-11	CARBON	10	5%	1/4W	
R794	1-249-410-11	CARBON	270	5%	1/4W	(UK, E, AUS)
R794	1-249-411-11	CARBON	330	5%	1/4W	(US, CND)
R799	1-249-410-11	CARBON	270	5%	1/4W	(UK, E, AUS)
R799	1-249-411-11	CARBON	330	5%	1/4W	(US, CND)
R801	1-249-415-11	CARBON	680	5%	1/4W	
R804	1-247-895-00	CARBON	470K	5%	1/4W	
R851	1-249-415-11	CARBON	680	5%	1/4W	
R854	1-247-895-00	CARBON	470K	5%	1/4W	
⚠R950	1-216-472-00	METAL OXIDE	39	5%	3W	F
⚠R951	1-216-472-00	METAL OXIDE	39	5%	3W	F
⚠R952	1-247-743-11	CARBON	220	5%	1/2W	F
R953	1-249-422-11	CARBON	2.7K	5%	1/4W	
R954	1-249-423-11	CARBON	3.3K	5%	1/4W	
⚠R955	1-216-472-00	METAL OXIDE	39	5%	3W	F
⚠R956	1-249-405-11	CARBON	100	5%	1/4W	F
R957	1-249-410-11	CARBON	270	5%	1/4W	
R958	1-249-410-11	CARBON	270	5%	1/4W	
R959	1-249-441-11	CARBON	100K	5%	1/4W	
R960	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R963	1-249-395-11	CARBON	15	5%	1/4W	F
R964	1-249-423-11	CARBON	3.3K	5%	1/4W	
R965	1-249-437-11	CARBON	47K	5%	1/4W	
R966	1-249-429-11	CARBON	10K	5%	1/4W	
R967	1-249-429-11	CARBON	10K	5%	1/4W	
R968	1-249-417-11	CARBON	1K	5%	1/4W	
R969	1-249-429-11	CARBON	10K	5%	1/4W	
R970	1-249-426-11	CARBON	5.6K	5%	1/4W	
R971	1-249-417-11	CARBON	1K	5%	1/4W	
R972	1-249-426-11	CARBON	5.6K	5%	1/4W	
R973	1-247-830-11	CARBON	910	5%	1/4W	
R974	1-249-425-11	CARBON	4.7K	5%	1/4W	
R975	1-249-437-11	CARBON	47K	5%	1/4W	
R999	1-249-397-11	CARBON	22	5%	1/4W	
		< RELAY >				
RY401	1-515-614-11	RELAY				
RY701	1-515-533-11	RELAY				
		< TERMINAL >				
TM1	1-537-240-51	TERMINAL BOARD (CHECKER PIN) (ANTENNA)				
TM701	1-537-376-11	TERMINAL BOARD (SP) (SPEAKERS)				

Ref. No.	Part No.	Description	Remark
		< ENCAPSULATED COMPONENT >	
TU001	1-239-561-11	ENCAPSULATED COMPONENT (FCC) (FM/AM TUNER)	(US, CND)
TU001	1-239-611-11	ENCAPSULATED COMPONENT (FM/AM TUNER)	(UK, E, AUS)
**********			
*	1-647-624-11	POWER BOARD **********	
		< CAPACITOR >	
⚠C901	1-161-744-00	CERAMIC 0.01uF	400V
		< CONNECTOR >	
CNJ917	1-540-057-11	OUTLET, AC (POLAR)	(US, CND)
CNJ917	1-540-038-11	OUTLET, AC (NONPOLAR)	(E)
* CNP901	1-564-321-00	PIN, CONNECTOR 2P	
* CNP902	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
* CNP903	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	(AUS)
CNP905	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	(E)
* CNP906	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P	(E)
* CNP951	1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D901	8-719-987-63	DIODE 1N4148M	
		< FUSE HOLDER >	
* FH902	1-533-293-11	HOLDER, FUSE	
* FH903	1-533-293-11	HOLDER, FUSE	(E)
* FH904	1-533-293-11	HOLDER, FUSE	(E)
* FH952	1-533-293-11	HOLDER, FUSE	
* FH953	1-533-293-11	HOLDER, FUSE	(E)
* FH954	1-533-293-11	HOLDER, FUSE	(E)
		< RESISTOR >	
R901	1-202-725-00	SOLID 3.3M 10%	1/2W (US, CND)
		< RELAY >	
RY901	1-515-738-11	RELAY, POWER	
		< TRASFORMER >	
⚠T902	1-450-358-11	TRANSFORMER, POWER	(UK, E, AUS)
⚠T902	1-450-361-11	TRANSFORMER, POWER	(US, CND)
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

STAND BY | SW-1 | SW-2 | SW-3 | TONE | TRANSFORMER | VOLUME

Ref.No.	Part No.	Description				Remark
*	1-647-625-11	STAND BY BOARD				
		**********				
		< CONNECTOR >				
* CNP107	1-565-295-11	PLUG, CONNECTOR 4P				
		< SWITCH >				
S137	1-554-303-21	SWITCH, TACTILE (POWER)				
**********						
*	1-647-618-11	SW-1 BOARD				
		**********				
		< CONNECTOR >				
CNP702	1-691-173-11	CONNECTOR (BOARD TO BOARD) 3P				
		< SWITCH >				
S701	1-571-485-11	SWITCH, PUSH (2 KEY) (SPEAKERS)				
**********						
*	1-647-619-11	SW-2 BOARD				
		**********				
**********						
*	1-647-620-11	SW-3 BOARD				
		**********				
		< CONNECTOR >				
CNP701	1-573-109-11	PIN, CONNECTOR 15P				
**********						
*	1-647-617-11	TONE BOARD				
		**********				
		< CAPACITOR >				
C501	1-130-489-00	MYLAR	0.033uF	5%	50V	
C502	1-124-250-00	ELECT	0.15uF	20%	50V	
C503	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C504	1-137-441-91	FILM	0.027uF	5%	50V	
C551	1-130-489-00	MYLAR	0.033uF	5%	50V	
C552	1-124-250-00	ELECT	0.15uF	20%	50V	
C553	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C554	1-137-441-91	FILM	0.027uF	5%	50V	
		< CONNECTOR >				
* CNP109	1-566-968-11	HOUSING, CONNECTOR (PC BOARD) 6P				

Ref.No.	Part No.	Description				Remark
		< RESISTOR >				
R501	1-249-429-11	CARBON	10K	5%	1/4W	
R502	1-249-422-11	CARBON	2.7K	5%	1/4W	
R507	1-249-415-11	CARBON	680	5%	1/4W	
R508	1-247-903-00	CARBON	1M	5%	1/4W	
R510	1-247-903-00	CARBON	1M	5%	1/4W	
R551	1-249-429-11	CARBON	10K	5%	1/4W	
R552	1-249-422-11	CARBON	2.7K	5%	1/4W	
R557	1-249-415-11	CARBON	680	5%	1/4W	
R558	1-247-903-00	CARBON	1M	5%	1/4W	
R560	1-247-903-00	CARBON	1M	5%	1/4W	
		< VARIABLE RESISTOR >				
RV401	1-223-362-11	RES, VAR, CARBON 100K/100K (BALANCE)				
RV402	1-223-363-11	RES, VAR, CARBON 125K/125K (TREBLE)				
RV403	1-238-965-21	RES, VAR, CARBON 100K/100K (BASS)				
**********						
*	1-647-627-11	TRANSFORMER BOARD (US, CND, E)				
		**********				
*	1-648-407-11	TRANSFORMER BOARD (UK, AUS)				
		**********				
**********						
*	A-4360-409-A	VOLUME BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C436	1-137-371-11	FILM	0.015uF	5%	50V	
C438	1-124-927-11	ELECT	4.7uF	20%	100V	
C439	1-124-927-11	ELECT	4.7uF	20%	100V	
C486	1-137-371-11	FILM	0.015uF	5%	50V	
C505	1-162-206-31	CERAMIC	20PF	5%	50V	
C506	1-124-925-11	ELECT	2.2uF	20%	100V	
C507	1-162-196-31	CERAMIC	5.6PF	10%	50V	
C508	1-123-382-00	ELECT	3.3uF	20%	100V	
C511	1-124-464-11	ELECT	0.22uF	20%	50V	
C513	1-123-382-00	ELECT	3.3uF	20%	100V	
C516	1-124-477-11	ELECT	47uF	20%	25V	
C517	1-124-477-11	ELECT	47uF	20%	25V	
C555	1-162-206-31	CERAMIC	20PF	5%	50V	
C556	1-124-925-11	ELECT	2.2uF	20%	100V	
C557	1-162-196-31	CERAMIC	5.6PF	10%	50V	
C558	1-123-382-00	ELECT	3.3uF	20%	100V	
C563	1-123-382-00	ELECT	3.3uF	20%	100V	
		< CONNECTOR >				
* CNP103	1-750-383-11	CONNECTOR, BOARD TO BOARD 11P				
* CNP401	1-566-971-11	PIN, CONNECTOR (PC BOARD) 6P				

Ref.No.	Part No.	Description	Remark
* CNP402	1-566-972-11	PIN, CONNECTOR (PC BOARD) 7P	
		< DIODE >	
D404	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC403	8-759-112-93	IC uPC4570HA-1	
		< TRANSISTOR >	
Q404	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q454	8-729-202-67	TRANSISTOR 2SK246-GR3	
		< RESISTOR >	
R445	1-249-431-11	CARBON 15K 5% 1/4W	
R495	1-249-431-11	CARBON 15K 5% 1/4W	
R503	1-249-441-11	CARBON 100K 5% 1/4W	
R504	1-249-431-11	CARBON 15K 5% 1/4W	
R505	1-249-438-11	CARBON 56K 5% 1/4W	
R506	1-249-441-11	CARBON 100K 5% 1/4W	
R511	1-249-441-11	CARBON 100K 5% 1/4W	
R513	1-247-903-00	CARBON 1M 5% 1/4W	
R514	1-249-405-11	CARBON 100 5% 1/4W	
R515	1-249-405-11	CARBON 100 5% 1/4W	
R553	1-249-441-11	CARBON 100K 5% 1/4W	
R554	1-249-431-11	CARBON 15K 5% 1/4W	
R555	1-249-438-11	CARBON 56K 5% 1/4W	
R556	1-249-441-11	CARBON 100K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV701	1-241-850-11	RES, VAR, CARBON 100K/100K (VOLUME)	
**********			
		MISCELLANEOUS	
		**********	
10	1-696-456-11	WIRE (FLAT TYPE) (31 CORE)	
⚠63	1-696-570-21	CORD, POWER (UK)	
⚠64	1-696-848-21	CORD, POWER (AUS)	
⚠65	1-575-653-51	CORD, POWER (E)	
⚠65	1-690-609-11	CORD, POWER (US, CND)	
⚠66	1-526-565-00	AC PLUG ADAPTOR (E)	
⚠69	1-251-078-11	OUTLET, AC. (AUS)	
⚠F902	1-532-259-00	FUSE (T1.6AL) (UK, AUS)	
⚠F902	1-532-286-00	FUSE (T2.5AL) (E)	
⚠F902	1-576-110-11	FUSE (125V 6A) (US, CND)	
⚠F903	1-532-259-00	FUSE (T1.6AL) (UK, AUS)	
⚠F903	1-532-286-00	FUSE (T2.5AL) (E)	
⚠F904	1-576-107-11	FUSE (3.15A 250V) (E)	
⚠T901	1-423-568-11	TRANSFORMER, POWER (US, CND)	
⚠T901	1-423-569-11	TRANSFORMER, POWER (UK, AUS)	

Ref.No.	Part No.	Description	Remark
⚠T901	1-423-573-11	TRANSFORMER, POWER (E)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-465-423-22	REMOTE COMMANDER (RM-S103)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-374-11	ANTENNA, LOOP	
	2-181-754-01	COVER (MLY), BATTERY	
	3-756-536-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (E)	
	3-756-536-21	MANUAL, INSTRUCTION (ENGLISH) (US, CND, AUS)	
	3-756-536-31	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-756-536-41	MANUAL, INSTRUCTION (ENGLISH) (UK)	
*	4-952-676-01	CUSHION	
*	4-957-597-01	INDIVIDUAL CARTON (US, CND, E, AUS)	
*	4-957-598-01	INDIVIDUAL CARTON (UK)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-682-548-04	SCREW +BVTT 3X8 (S)	
#2	7-682-548-09	SCREW +BVTT 3X8 (S)	
#3	7-685-871-01	SCREW +BVTT 3X6 (S)	
#4	7-682-560-04	SCREW +BVTT 4X6 (S)	
#5	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
#6	7-682-547-09	SCREW +BVTT 3X6 (S)	
#7	7-621-849-00	SCREW, TAPPING	
#8	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#9	7-685-646-19	SCREW +BVTP 3X8 TYPE2 NS BZN	

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